Research Initiation Grants in Engineering Education (RIGEE)

PROGRAM SOLICITATION

NSF 11-507

REPLACES DOCUMENT(S): NSF 10-502



National Science Foundation

Directorate for Engineering
Engineering Education and Centers

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

March 31 2011

Last Thursday in March, Annually Thereafter

IMPORTANT INFORMATION AND REVISION NOTES

A revised version of the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG), *NSF* 11-1, was issued on October 1, 2010 and is effective for proposals submitted, or due, on or after January 18, 2011. Please be advised that the guidelines contained in *NSF* 11-1 apply to proposals submitted in response to this funding opportunity. Proposers who opt to submit prior to January 18, 2011, must also follow the guidelines contained in *NSF* 11-1.

Cost Sharing: The PAPPG has been revised to implement the National Science Board's recommendations regarding cost sharing. Inclusion of voluntary committed cost sharing is prohibited. In order to assess the scope of the project, all organizational resources necessary for the project must be described in the Facilities, Equipment and Other Resources section of the proposal. The description should be narrative in nature and must not include any quantifiable financial information. Mandatory cost sharing will only be required when explicitly authorized by the NSF Director. See the PAPP Guide Part I: *Grant Proposal Guide (GPG)* Chapter II.C.2.g(xi) for further information about the implementation of these recommendations.

Data Management Plan: The PAPPG contains a clarification of NSF's long standing data policy. All proposals must describe plans for data management and sharing of the products of research, or assert the absence of the need for such plans. FastLane will not permit submission of a proposal that is missing a Data Management Plan. The Data Management Plan will be reviewed as part of the intellectual merit or broader impacts of the proposal, or both, as appropriate. Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units are available on the NSF website at: http://www.nsf.gov/bfa/dias/policy/dmp.jsp. See Chapter II.C.2.j of the GPG for further information about the implementation of this requirement.

Postdoctoral Researcher Mentoring Plan: As a reminder, each proposal that requests funding to support postdoctoral researchers must include, as a supplementary document, a description of the mentoring activities that will be provided for such individuals. Please be advised that if required, FastLane will not permit submission of a proposal that is missing a Postdoctoral Researcher Mentoring Plan. See Chapter II.C.2.j of the GPG for further information about the implementation of this requirement.

REVISION SUMMARY

This program solicitation replaces the Area 2 and Area 3 tracks of the previous IEECI solicitation (NSF 10-502). The Area 1 track has been replaced by the *Research in Engineering Education* program description that can be found on the EEC web site. Pls funded under previous IEECI solicitations who are seeking to support follow-on projects should apply to the *Research in Engineering Education* program.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Research Initiation Grants in Engineering Education (RIGEE)

Synopsis of Program:

Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for educating future engineers. As such, engineering faculty are in a unique position to help address

critical challenges in engineering education. The Research Initiation Grants in Engineering Education (RIGEE) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the learning and cognitive sciences to address difficult, boundary-spanning problems in how we educate engineers.

Cognizant Program Officer(s):

Please note that the following information is current at the time of publishing. See program website for any updates to the points of contact.

- R. Alan Cheville, telephone: (703) 292-7107, email: rchevill@nsf.gov
- Susan C. Kemnitzer, telephone: (703) 292-5347, email: skemnitz@nsf.gov

Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):

47.041 --- Engineering

Award Information

Anticipated Type of Award: Standard Grant

Estimated Number of Awards: 20 - EEC expects to make approximately 20 awards in FY 2011 in the RIGEE program.

Anticipated Funding Amount: \$150,000 - EEC expects to invest approximately \$3,000,000 beginning in FY 2011, pending the availability of funds. Given the exploratory nature and focus of these awards this amount may vary.

Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

Universities and Colleges - Universities and two- and four-year colleges (including community colleges)
accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such
organizations also are referred to as academic institutions.

PI Limit:

The RIGEE program is designed to broaden participation of engineering faculty new to engineering education research. At least *one* (co)PI must be a member of an engineering department AND not have received engineering education funding through EEC in the last three years.

Submissions from senior faculty and faculty who have just received tenure and are exploring alternative career paths are especially encouraged. The RIGEE program is *not* intended to create an additional funding channel for established engineering education researchers; such researchers should apply to the *Research in Engineering Education* program description found on EEC's web site.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI:

None Specified

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- · Letters of Intent: Not Applicable
- Preliminary Proposal Submission: Not Applicable
- Full Proposals:
 - Full Proposals submitted via FastLane: NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) Guidelines apply. The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg.
 - Full Proposals submitted via Grants.gov: NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines apply (Note: The NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp? ods_key=grantsgovguide)

B. Budgetary Information

- Cost Sharing Requirements: Inclusion of voluntary committed cost sharing is prohibited.
- Indirect Cost (F&A) Limitations: Not Applicable
- · Other Budgetary Limitations: Not Applicable

C. Due Dates

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

March 31, 2011

Last Thursday in March, Annually Thereafter

Proposal Review Information Criteria

Merit Review Criteria: National Science Board approved criteria apply.

Award Administration Information

Award Conditions: Standard NSF award conditions apply.

Reporting Requirements: Additional reporting requirements apply. Please see the full text of this solicitation for further information.

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I. INTRODUCTION

Engineering degree programs form a loosely coupled system that serves societal needs by preparing the future engineering workforce for careers in an increasingly interconnected and technical world. Engineering programs, like other systems, face significant challenges in the next decade. Such challenges include, but are by no means limited to:

- · How to address the rapid increase of knowledge within engineering disciplines while keeping the cost and time required for a degree manageable.
- Addressing the impact of globalization on degree programs from the perspective of competition for jobs as well as enabling effective collaborations between global partners.
- · Developing ways to effectively measure learning, especially in emerging disciplines or where learning is closely tied to projects, discovery, or computational tools such as visualization and simulation. Helping faculty address changing student motivations and attitudes.
- Making meaningful and lasting impact on the chronic problem of inclusion of under-represented groups in engineering.
- Adding skills in innovation and entrepreneurship without diluting engineering fundamentals given already over-crowded

These, and many other challenges in engineering education, are highly cross-disciplinary. Solutions require deep knowledge of engineering ways of thinking and solving problems as well as theoretical insights and expertise from the humanities, learning sciences, economics, education, neuroscience, and other disparate fields of study. RIGEE awards support engineering faculty in initiating research collaborations on such boundary-spanning problems or developing expertise outside their own engineering discipline. The RIGEE program specifically targets those individuals who are outstanding engineering educators, allowing them to build from this base to develop wider, research-based innovations in engineering education.

II. PROGRAM DESCRIPTION

A wide range of engineering education research topics can be addressed in RIGEE proposals; the emphasis of RIGEE is on *initiating* research projects in engineering education rather than supporting research on any specific topic. Proposals are encouraged on any topic which explores engineering education from an inter-disciplinary perspective. RIGEE projects should combine engineering approaches with those from learning and cognitive sciences, engineering education, social sciences, and related fields in synergistic ways and enable engineering faculty to develop expertise in engineering education research.

RIGEE awards are intended to broaden participation of engineering faculty in engineering education research. Possible outcomes commensurate with the goals of this program are:

- Enabling engineering faculty to develop collaborative, first-stage, inter-disciplinary efforts to address boundary-spanning challenges in engineering education.
- Support engineering faculty in developing expertise in engineering education.
- To increase the number of faculty and universities who apply for and receive EEC funding to initiate projects and programs in engineering education research.

The intent of the RIGEE program is to broaden participation of faculty in engineering education research rather than create an additional funding channel for established engineering education researchers. The Research in Engineering Education program on the EEC web site provides opportunities for established researchers.

III. AWARD INFORMATION

Anticipated Type of Award: Standard Grant

Estimated Number of Awards: EEC expects to make approximately 25 awards in FY 2011 in the RIGEE program.

Anticipated Funding Amount: \$150,000 - EEC expects to invest approximately \$3,750,000 beginning in FY 2011, pending the availability of funds. Given the exploratory nature and focus of these awards this amount may vary.

Estimated program budget, number of awards and average award size/duration are subject to the availability of funds. Project duration should be 24 months.

IV. ELIGIBILITY INFORMATION

Organization Limit:

Proposals may only be submitted by the following:

Universities and Colleges - Universities and two- and four-year colleges (including community colleges)
accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such
organizations also are referred to as academic institutions.

PI Limit:

The RIGEE program is designed to broaden participation of engineering faculty new to engineering education research. At least *one* (co)PI must be a member of an engineering department AND not have received engineering education funding through EEC in the last three years.

Submissions from senior faculty and faculty who have just received tenure and are exploring alternative career paths are especially encouraged. The RIGEE program is *not* intended to create an additional funding channel for established engineering education researchers; such researchers should apply to the *Research in Engineering Education* program description found on EEC's web site.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI:

None Specified

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal Preparation Instructions: Proposers may opt to submit proposals in response to this Program Solicitation via Grants.gov or via the NSF FastLane system.

- Full proposals submitted via FastLane: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Grant Proposal Guide (GPG). The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?cds_key=gpg. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by email from <a href="https://www.nsf.gov/publications/publications/publication.gov/publications/publications/publications/publications/publications/publications/publications/publication.gov/publications/publications/publications/publication.gov/publications/publication.gov/publications/publication.gov/pu
- Full proposals submitted via Grants.gov: Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov. The complete text of the NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: (http://www.nsf.gov/publications/pub_summ.jsp? ods_key=grantsgovguide). To obtain copies of the Application Guide and Application Forms Package, click on the Apply tab on the Grants.gov site, then click on the Apply Step 1: Download a Grant Application Package and Application Instructions link and enter the funding opportunity number, (the program solicitation number without the NSF prefix) and press the Download Package button. Paper copies of the Grants.gov Application Guide also may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov.

In determining which method to utilize in the electronic preparation and submission of the proposal, please note the following:

Collaborative Proposals. All collaborative proposals submitted as separate submissions from multiple organizations must be submitted via the NSF FastLane system. Chapter II, Section D.4 of the Grant Proposal Guide provides additional information on collaborative proposals.

Guidelines for RIGEE Proposal Preparation:

The focus of RIGEE awards is enabling engineering faculty renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborative partnerships in engineering education research. Please follow the instructions given in the Grant Proposal Guide (GPG) in preparing your proposal. Given the focus of the RIGEE program on faculty development and cross-disciplinary collaboration, RIGEE proposals need to address the following topics in the fifteen page Project Description narrative:

- Background of PI: Provide background on the PI's relevant expertise and/or teaching experience. Describe any current and ongoing efforts to improve learning that are being undertaken by the PI, particularly those related to mentoring students or faculty and course or curriculum development efforts.
- Motivation for Project: Briefly outline the motivation for the proposed RIGEE project. How did you become interested in the research topic, and what are the larger issues the project (if successful) may impact? Describe any prior results (positive or negative) that support the need for the project.
- **Problem to be Addressed:** RIGEE projects should motivated by, and clearly state, a perceived problem in educating engineers which requires insights, expertise, and/or theory from engineering and other disciplines. The proposal should pose research questions that will be empirically investigated during the project and outline the synergies expected from bringing multiple perspectives to the problem in question.
- Interdisciplinary Partnerships: Describe the proposed partnership with one or more researchers from outside your engineering discipline; include prior interactions, if any. Partnerships need not be within the same institution, but interinstitution partnerships should provide a detailed plan for ensuring frequent and meaningful collaboration. If the partner is not a co-PI on the proposal, a letter of commitment is required.
- Development Plan: Since RIGEE awards are designed to initiate boundary-spanning research, with the difficulties inherent
 to such projects, discuss plans for managing the research project as well as professional development of the Pls. Aspects
 of a well crafted development plan include: how participants will explore the theoretical basis, research methodologies, and
 epistemologies of each discipline; how expected project goals and milestones are informed by multiple disciplines; and how
 the project will impact participants' long-term career goals in engineering education. If the RIGEE award is intended to
 partially fund sabbatical activities, plans for the sabbatical should be described.
- Plans for Future Research and Development of NSF Proposals: Activities to be undertaken during the project--such as
 acquisition of preliminary data, professional development, or exploratory research--should lead to formulation of ongoing
 research projects. Future projects should lead to competitive grant applications to NSF at the conclusion of the RIGEE
 award. Describe how the planned activities will be lay the groundwork for, or be incorporated into, future research in
 engineering education. A specific goal of the RIGEE program is to broaden the range of faculty who submit to EEC
 programs in the future.

The title of RIGEE proposals should begin with "Research Initiation Grant:".

Please be aware that engineering education research projects involving human subjects must receive approval from the proposer's Institutional Review Board (IRB) before funds will be awarded.

New proposals to the Engineering Directorate must include a comprehensive data management plan that enables data and metadata to be shared with other researchers.

Also note that EEC sponsors grantee meetings at which PIs are encouraged to present results from their projects.

B. Budgetary Information

Cost Sharing: Inclusion of voluntary committed cost sharing is prohibited

C. Due Dates

• Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

March 31, 2011

Proposals received after the deadline listed above will be returned without review.

D. FastLane/Grants.gov Requirements

· For Proposals Submitted Via FastLane:

Detailed technical instructions regarding the technical aspects of preparation and submission via FastLane are available at: https://www.fastlane.nsf.gov/a1/newstan.htm. For FastLane user support, call the FastLane Help Desk at 1-800-673-6188 or e-mail fastlane@nsf.gov. The FastLane Help Desk answers general technical questions related to the use of the FastLane system. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this funding opportunity.

Submission of Electronically Signed Cover Sheets. The Authorized Organizational Representative (AOR) must electronically sign the proposal Cover Sheet to submit the required proposal certifications (see Chapter II, Section C of the Grant Proposal Guide for a listing of the certifications). The AOR must provide the required electronic certifications within five working days following the electronic submission of the proposal. Further instructions regarding this process are available on the FastLane Website at: https://www.fastlane.nsf.gov/fastlane.jsp.

· For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. Comprehensive information about using Grants.gov is available on the Grants.gov Applicant Resources webpage: http://www07.grants.gov/applicants/app_help_reso.jsp. In addition, the NSF Grants.gov Application Guide provides additional technical guidance regarding preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

Submitting the Proposal: Once all documents have been completed, the Authorized Organizational Representative (AOR) must submit the application to Grants.gov and verify the desired funding opportunity and agency to which the application is submitted. The AOR must then sign and submit the application to Grants.gov. The completed application will be transferred to the NSF FastLane system for further processing.

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

Proposals received by NSF are assigned to the appropriate NSF program where they will be reviewed if they meet NSF proposal preparation requirements. All proposals are carefully reviewed by a scientist, engineer, or educator serving as an NSF Program Officer, and usually by three to ten other persons outside NSF who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with the oversight of the review process. Proposers are invited to suggest names of persons they believe are especially well qualified to review the proposal and/or persons they would prefer not review the proposal. These suggestions may serve as one source in the reviewer selection process at the Program Officer's discretion. Submission of such names, however, is optional. Care is taken to ensure that reviewers have no conflicts of interest with the proposal.

A. NSF Merit Review Criteria

All NSF proposals are evaluated through use of the two National Science Board (NSB)-approved merit review criteria: intellectual merit and the broader impacts of the proposed effort. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two NSB-approved merit review criteria are listed below. The criteria include considerations that help define them. These considerations are suggestions and not all will apply to any given proposal. While proposers must address both merit review criteria, reviewers will be asked to address only those considerations that are relevant to the proposal being considered and for which the reviewer is qualified to make judgements.

What is the intellectual merit of the proposed activity?

How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of the prior work.) To what extent does the proposed activity suggest and explore creative, original, or potentially transformative concepts? How well conceived and organized is the proposed activity? Is there sufficient access to resources?

What are the broader impacts of the proposed activity?

How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding? What may be the benefits of the proposed activity to society?

Examples illustrating activities likely to demonstrate broader impacts are available electronically on the NSF website at: http://www.nsf.gov/pubs/gpg/broaderimpacts.pdf.

Mentoring activities provided to postdoctoral researchers supported on the project, as described in a one-page supplementary document, will be evaluated under the Broader Impacts criterion.

NSF staff also will give careful consideration to the following in making funding decisions:

Integration of Research and Education

One of the principal strategies in support of NSF's goals is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions provide abundant opportunities where individuals may concurrently assume responsibilities as researchers, educators, and students and where all can engage in joint efforts that infuse education with the excitement of discovery and enrich research through the diversity of learning perspectives.

Integrating Diversity into NSF Programs, Projects, and Activities

Broadening opportunities and enabling the participation of all citizens -- women and men, underrepresented minorities, and persons with disabilities -- is essential to the health and vitality of science and engineering. NSF is committed to this principle of diversity and deems it central to the programs, projects, and activities it considers and supports.

B. Review and Selection Process

Proposals submitted in response to this program solicitation will be reviewed by Panel Review.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

After scientific, technical and programmatic review and consideration of appropriate factors, the NSF Program Officer recommends to the cognizant Division Director whether the proposal should be declined or recommended for award. NSF is striving to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. The time interval begins on the deadline or target date, or receipt date, whichever is later. The interval ends when the Division Director accepts the Program Officer's recommendation.

A summary rating and accompanying narrative will be completed and submitted by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are sent to the Principal Investigator/Project Director by the Program Officer. In addition, the proposer will receive an explanation of the decision to award or decline funding.

In all cases, after programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications and the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at their own risk.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

Notification of the award is made to *the submitting organization* by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See Section VI.B. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award letter, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award letter; (4) the applicable award conditions, such as Grant General Conditions (GC-1); * or Research Terms and Conditions and (5) any announcement or other NSF issuance that may be incorporated by reference in the award letter. Cooperative agreements also are administered in accordance with NSF Cooperative Agreement Financial and Administrative Terms and Conditions (CA-FATC) and the applicable Programmatic Terms and Conditions. NSF awards are electronically signed by an NSF Grants and Agreements Officer and transmitted electronically to the organization via e-mail.

*These documents may be accessed electronically on NSF's Website at http://www.nsf.gov/awards/managing/award_conditions.jsp? org=NSF. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov.

More comprehensive information on NSF Award Conditions and other important information on the administration of NSF awards is contained in the NSF Award & Administration Guide (AAG) Chapter II, available electronically on the NSF Website at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=aag.

C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the Principal Investigator must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period. (Some programs or awards

require more frequent project reports). Within 90 days after expiration of a grant, the PI also is required to submit a final project report, and a project outcomes report for the general public.

Failure to provide the required annual or final project reports, or the project outcomes report will delay NSF review and processing of any future funding increments as well as any pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

Pls are required to use NSF's electronic project-reporting system, available through FastLane, for preparation and submission of annual and final project reports. Such reports provide information on activities and findings, project participants (individual and organizational), publications, and other specific products and contributions. Pls will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system. Submission of the report is FastLane constitutes certification by the PI that the contents of the report are accurate and complete. The project outcomes report must be prepared and submitted using Research.gov. This report serves as a brief summary, prepared specifically for the public, of the nature and outcomes of the project. This report will be posted on the NSF website exactly as it is submitted by the PI.

 Additional reporting conditions may apply to RIGEE awards; these conditions will be stipulated in the award notices sent to grantee institutions.

VIII. AGENCY CONTACTS

Please note that the program contact information is current at the time of publishing. See program website for any updates to the points of contact.

General inquiries regarding this program should be made to:

- R. Alan Cheville, telephone: (703) 292-7107, email: rchevill@nsf.gov
- Susan C. Kemnitzer, telephone: (703) 292-5347, email: skemnitz@nsf.gov

For questions related to the use of FastLane, contact:

• FastLane Help Desk, telephone: 1-800-673-6188; e-mail: fastlane@nsf.gov.

For questions relating to Grants.gov contact:

Grants.gov Contact Center: If the Authorized Organizational Representatives (AOR) has not received a confirmation
message from Grants.gov within 48 hours of submission of application, please contact via telephone: 1-800-518-4726; e-mail: support@grants.gov.

Please direct inquiries preferentially to R. Alan Cheville.

IX. OTHER INFORMATION

The NSF Website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this Website by potential proposers is strongly encouraged. In addition, National Science Foundation Update is a free e-mail subscription service designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF Regional Grants Conferences. Subscribers are informed through e-mail when new publications are issued that match their identified interests. Users can subscribe to this service by clicking the "Get NSF Updates by Email" link on the NSF web site.

Grants.gov provides an additional electronic capability to search for Federal government-wide grant opportunities. NSF funding opportunities may be accessed via this new mechanism. Further information on Grants.gov may be obtained at http://www.grants.gov.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation accounts for about one-fourth of Federal support to academic institutions for basic research.

NSF receives approximately 40,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Arctic and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

Facilitation Awards for Scientists and Engineers with Disabilities provide funding for special assistance or equipment to enable

persons with disabilities to work on NSF-supported projects. See Grant Proposal Guide Chapter II, Section D.2 for instructions regarding preparation of these types of proposals.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090 and (800) 281-8749, FIRS at (800) 877-8339.

The National Science Foundation Information Center may be reached at (703) 292-5111.

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants and cooperative agreements for research and education in the sciences, mathematics, and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Website at http://www.nsf.gov.

• Location: 4201 Wilson Blvd. Arlington, VA 22230

• For General Information (703) 292-5111 (NSF Information Center):

• TDD (for the hearing-impaired): (703) 292-5090

• To Order Publications or Forms:

Send an e-mail to: nsfpubs@nsf.gov

or telephone: (703) 292-7827

• To Locate NSF Employees: (703) 292-5111

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

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